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Telangana 500033, India (Beside Indwell House)

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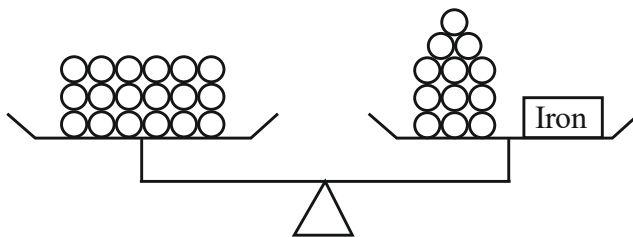
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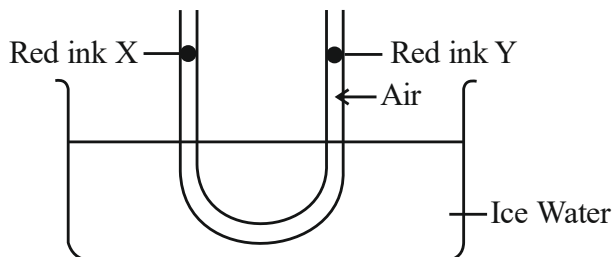
**SECTION-A : PHYSICS**

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

- 12 hours 15 minutes = \_\_\_\_\_ seconds  
 (1) 43215 (2) 735  
 (3) 44100 (4) 41400
- Select the correct option regarding natural resources.  
 (1) Natural resources can never be exhausted.  
 (2) Natural resources are obtained from soil only.  
 (3) Nonmineral resources included air and water.  
 (4) All are correct.
- The total lunar eclipse occur in \_\_\_\_\_ .  
 (1) New moon phase. (2) Full moon phase.  
 (3) Waning gibbous phase. (4) First quarter phase.
- What is the mass of 17 such balls  $\bigcirc$ , if the mass of iron block is 36 kg ?  
 [Given: The beam balance shown in the figure is perfectly balanced].



- (1) 36 kg. (2) 120 kg.  
 (3) 63 kg. (4) 102 kg.
- The U-tube shown below is immersed in ice water. X and Y are the red ink droplets present inside the tube.



What will you observe after some time ?

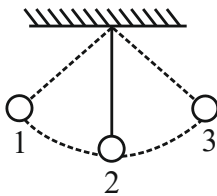
- (1) X will move downwards and Y will move upwards.
- (2) X will move upwards and Y will move downwards.
- (3) X and Y will move upwards
- (4) X and Y will move downwards.

6. Direction :- The data given in the table below shows the tariff of a post office. Study it carefully and answer the question.

Tariff		
Intra-District mail	Rs-15 (upto 50 gm)	Rs-2.50 (every additional 50 gm or part thereof)
Inter-District mail	Rs-25 (upto 50 gm)	Rs-3.50 (every additional 50 gm or part thereof)

How much tariff is needed to sent a inter-district mail of weight 250 gm?

- (1) Rs. 25  
(2) Rs. 27.5  
(3) Rs. 39  
(4) Rs. 32.5
7. A simple pendulum is oscillating, as shown in figure. At what point, kinetic energy is maximum & potential energy is minimum ?



- (1) 1  
(2) 2  
(3) 3  
(4) In between 2 & 3
8. Which of the following statement is incorrect ?
- (1) Precious metals like gold and platinum are used for making jewellery.  
(2) Dentists use powdered pumice for polishing our teeth.  
(3) Black gold is another name of granite.  
(4) Shale is used to make tiles and bricks.
9. Which of the following is an example of non-renewable energy ?
- (1) Solar energy  
(2) Hydro energy  
(3) Nuclear energy  
(4) Geothermal energy
10. Fossil fuels formed over a long period of time when heat and pressure were applied to \_\_\_\_\_.
- (1) Nitrogen mixed in the water.  
(2) Organisms buried in the ground.  
(3) Carbon-filtered through limestone.  
(4) Bacteria on top of the mud.
11. Work done = Force  $\times$  \_\_\_\_\_.
- (1) Distance  
(2) Displacement  
(3) Acceleration  
(4) Mass

## SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

12. The process by which water changes to ice
- (1) Melting (2) Freezing  
(3) Evaporation (4) Condensation
13. Plastic has become a commonly utilized material because.
- (1) Environment friendly (2) Durable  
(3) Light in weight (4) Both (2) and (3)
14. Which of the following changes weather?
- (1) The Sun (2) Human  
(3) Air (4) Television
15. Soil is made from \_\_\_\_\_.
- (1) Plants (2) Rocks  
(3) Grass (4) None of these
16. Dead leaves are important for soil because \_\_\_\_\_.
- (1) They help the arrival of new leaves (2) They form manure  
(3) They provide colour to soil (4) None of these
17. Which of the following are compressible?
- i. Steam ii. Nitrogen  
iii. Oxygen
- (1) (i) and (ii) only (2) (ii) and (iii) only  
(3) (i) and (iii) only (4) All of these
18. In bar magnet, the molecules are held by
- (1) Strong force of attraction (2) Weak force of attraction  
(3) No force of attraction (4) Strong force of repulsion
19. Frozen dew is called?
- (1) Frost (2) Rain  
(3) Hail stone (4) Water
20. The rocks formed by cooling of liquid magma is \_\_\_\_\_.
- (1) Igneous Rock (2) Sedimentary Rock  
(3) Metamorphic Rock (4) None of these
21. The layer immediately above bed rock is \_\_\_\_\_.
- (1) Humus (2) Top soil  
(3) Sub soil (4) Parent Material
22. Heat conduction occur fastest in
- (1) Solid (2) Liquid  
(3) Gas (4) None of these

SECTION-C : BIOLOGY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

23. Dehydration is a method of preserving food by :-  
 (1) Adding sugar (2) Adding salt  
 (3) Freezing (4) Drying
24. The development of seed into seedling which further develop to plant is called :-  
 (1) Preservation (2) Seed dispersal  
 (3) Germination (4) None of the these
25. Which of the following have leaves without pores ?  
 (1) Underwater plants (2) Floating plants  
 (3) Fixed plants (4) Evergreen plants
26. Fish and crabs are aquatic animals with some similar habits. Which similar character does 'x' represent ?  
 (1) Fins (2) Flexible backbone  
 (3) Streamlined body (4) Gills to breathe
27. Which of the following is/are type of asexual reproduction ?  
 (1) Budding (2) Fission  
 (3) Fragmentation (4) All of the above
28. Kitchen of plant refers to which part of plant :-  
 (1) Leaf (2) Flower  
 (3) Stem (4) Root
29. From which part of plant can sugarcane be grown :-  
 (1) Roots (2) Leaves  
 (3) Stems (4) None of these
30. 

<u>Vitamin</u>	<u>Deficiency disease</u>
(a) Vit A	(i) Night blindness
(b) Vit C	(ii) Beri-beri
(c) Vit D	(iii) Osteo malacia
(d) Vit B	(iv) Sterility
	(v) Scurvy
- (1) a – v, b – ii, c – i, d – iii  
 (2) a – iii, b – i, c – ii, d – v  
 (3) a – ii, b – iii, c – v, d – i  
 (4) a – i, b – v, c – iii, d – ii
31. Tigers have stripes on their bodies. This adaptation helps them to :-  
 (1) Keep their bodies cool (2) Keep their bodies hot  
 (3) Mix with the surrounding (4) make them beautiful

32. Select the group of diseases that spread by the same means or have the same cause :-
- |                             |                        |
|-----------------------------|------------------------|
| (1) Goitre, Anaemia         | (2) Allergy, Cholera   |
| (3) Dengue, Night blindness | (4) Beri-beri, Malaria |
33. Boiling a liquid and then quickly cooling it-down is a popular preservation method. It is called :-
- |              |                    |
|--------------|--------------------|
| (1) Canning  | (2) Freezing       |
| (3) Steaming | (4) pasteurization |

**SECTION-D : MATHEMATICS**

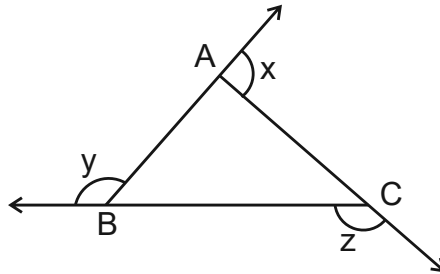
This section contains **25 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

34. If the ratio of circumferences of two circles is 4 : 9, what is the ratio of their areas?
- |           |             |
|-----------|-------------|
| (1) 9 : 4 | (2) 16 : 81 |
| (3) 4 : 9 | (4) 2 : 3   |
35. The smallest factor of any number is
- |        |                    |
|--------|--------------------|
| (1) 1  | (2) 0              |
| (3) 10 | (4) Number it self |
36. How many centimetres make 3m?
- |         |          |
|---------|----------|
| (1) 100 | (2) 30   |
| (3) 300 | (4) 3000 |
37. Fractions with same denominators are known as \_\_\_\_\_ fraction.
- |             |                |
|-------------|----------------|
| (1) Like    | (2) Unlike     |
| (3) Complex | (4) Reciprocal |
38. What is the total boundary length of a circle called?
- |                   |              |
|-------------------|--------------|
| (1) Area          | (2) Volume   |
| (3) Circumference | (4) Diameter |
39. What is the probability of choosing a vowel from the alphabets?
- |                     |                    |
|---------------------|--------------------|
| (1) $\frac{21}{26}$ | (2) $\frac{5}{26}$ |
| (3) $\frac{1}{21}$  | (4) $\frac{5}{21}$ |
40. Through four non-collinear points in a plane how many lines can be drawn?
- |       |       |
|-------|-------|
| (1) 2 | (2) 4 |
| (3) 6 | (4) 8 |
41. If a die is thrown once, the probability of getting a prime number is
- |                   |                   |
|-------------------|-------------------|
| (1) $\frac{1}{5}$ | (2) $\frac{1}{4}$ |
| (3) $\frac{1}{3}$ | (4) $\frac{1}{2}$ |

42. HCF of two prime numbers is

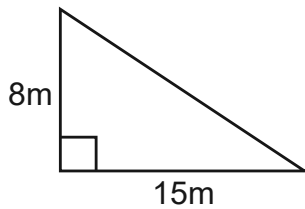
- (1) 3 (2) 0  
(3) 1 (4) 2

43. Find  $x + y + z$



- (1)  $270^\circ$  (2)  $540^\circ$   
(3)  $360^\circ$  (4)  $180^\circ$

44. Find the perimeter of triangle



- (1) 27 m (2) 36 m  
(3) 40 m (4) 48 m

45. The radius of the circle is 2.018 cm. what is its diameter?

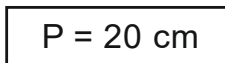
- (1) 4.36 cm (2) 4.036 cm  
(3) 40.36 cm (4) 403.6 cm

46. Perimeter of a square garden is 400m. Find its area.

- (1)  $100 \text{ m}^2$  (2)  $1,00,000 \text{ m}^2$   
(3)  $\text{m}^2$  (4)  $10,000 \text{ m}^2$

8 cm

47. Find the missing breadth



- (1) 4 cm (2) 2 cm  
(3) 6 cm (4) 8 cm

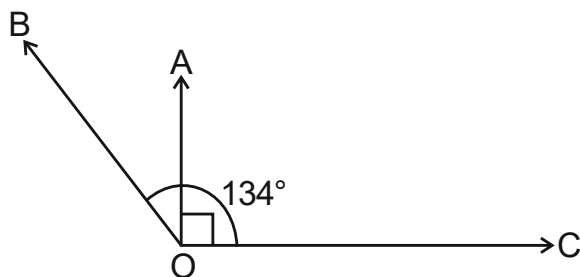
48. The HCF of 144, 180 and 192 is

- (1) 16 (2) 12  
(3) 18 (4) 24

49. How many one-fourths need to be added to  $2\frac{1}{4}$  to make 4 ?

- (1) 3 (2) 4  
(3) 5 (4) 7

50. The smallest 4 digit number with different digits is -
- (1) 1012 (2) 1100  
(3) 1230 (4) 1023
51. Number of times a particular observation occurs is called -
- (1) Mode (2) Frequency  
(3) Range (4) Mean
52. How many lines can be drawn joining two points in a plane ?
- (1) One (2) Two  
(3) Three (4) Four
53. Which of the following is a factor of 12 ?
- (1) 10 (2) 7  
(3) 5 (4) 6
54. Tally mark of  $\begin{array}{|l} \text{||||} \\ \text{||||} \end{array}$  represents
- (1) 7 (2) 8  
(3) 9 (4) 13
55. What is the sum of all the angles in an obtuse angled triangle ?
- (1)  $135^\circ$  (2)  $180^\circ$   
(3)  $360^\circ$  (4)  $270^\circ$
56. HCF of 324, 576 and 1080 is
- (1) 24 (2) 72  
(3) 36 (4) 48
57. What is the measure of  $\angle AOB$  in the following figure ?



- (1)  $90^\circ$  (2)  $44^\circ$   
(3)  $224^\circ$  (4)  $134^\circ$
58. A car travels 81 km in 3 hrs. What is the distance that it travels in 5 hours ?
- (1) 27 km (2) 135 km  
(3) 153 km (4) 125 km

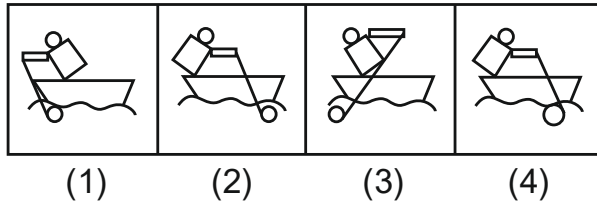
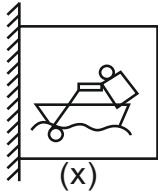


**SECTION-E : MENTAL ABILITY**

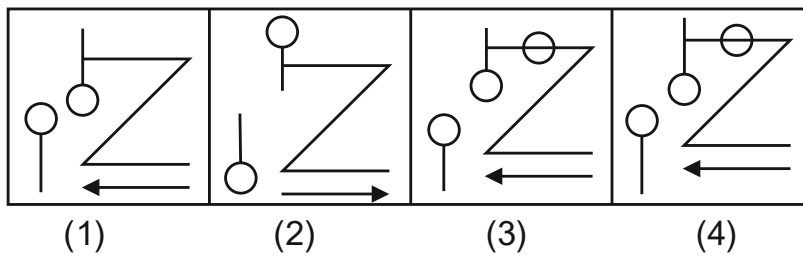
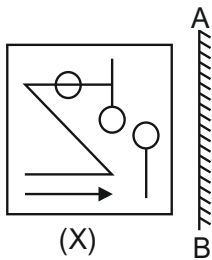
This section contains **22 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

59. Arrange the following words according to arrangement:
- |              |             |
|--------------|-------------|
| I. Epitaxy   | II. Episode |
| III. Epigene | IV. Epitome |
| V. Epilogue  |             |
- (1) I, II, III, IV, V      (2) III, V, II, I, IV  
(3) III, II, V, IV, I      (4) V, IV, II, I, III
60. Which of the following words will come fourth in the English dictionary?
- (1) False      (2) Follow  
(3) Faithfully      (4) Fool
61. Which of the following words will come second in the English dictionary?
- (1) Magical      (2) Magnetic  
(3) Maternal      (4) Marshal
62. Which word does NOT belong with the others ?
- (1) Inch      (2) Ounce  
(3) Centimeter      (4) Yard
63. Choose the word which is different from the rest.
- (1) Rigveda      (2) Yajurveda  
(3) Atharvaveda      (4) Ayurveda
64. If POND is coded as QPOE, how is FARM written in that code?
- (1) GBTO      (2) HBTN  
(3) GBSN      (4) GBSM
65. In a certain code, CAT is written as 24 then how is DOG written in that code?
- (1) 17      (2) 32  
(3) 28      (4) 26
66. If E = 5, PEN = 35, then PAGE = ?
- (1) 27      (2) 28  
(3) 29      (4) 36
67. You go North, turn right, then right again and then go to left. In which direction are you now?
- (1) North      (2) South  
(3) East      (4) West

68.



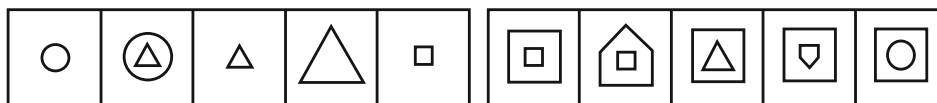
69.



70. Nitin ranks 18th from top in a class of 49 students. What is his rank from the test ?
- (1) 31 (2) 18  
(3) 32 (4) 19
71. Sanjeev ranks seventh from the top and twenty eight from the bottom in a class. How many students are there in the class ?
- (1) 33 (2) 36  
(3) 35 (4) 34
72. If rank of 'P' in alphabet letter series is '16' then what is its reverse ranking in same ?
- (1) 12 (2) 10  
(3) 11 (4) 13
73. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.

Problem Figures:

Answer Figures:



- (A) (B) (C) (D) (E) (1) (2) (3) (4) (5)
- (1) 1 (2) 2  
(3) 3 (4) 4

74. Complete the empty space by filling given below :

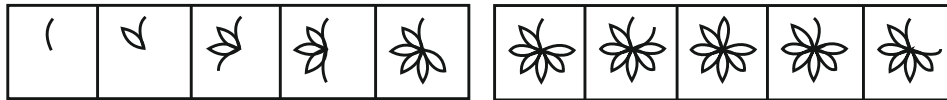
\_ b \_ ab \_ a \_ c a b \_

- (1) b a b a c (2) a b a c b  
(3) b a b c a (4) a c c b c

75. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:

Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

- (1) 1 (2) 2  
(3) 3 (4) 4

76. If the symbols followed by consonants interchange their positions within the group, then which element is third from the right end?

B @ C 7 N R % 5 \$ G 6 K M & 4 S # P U 5

- (1) U (2) #  
(3) P (4) 5

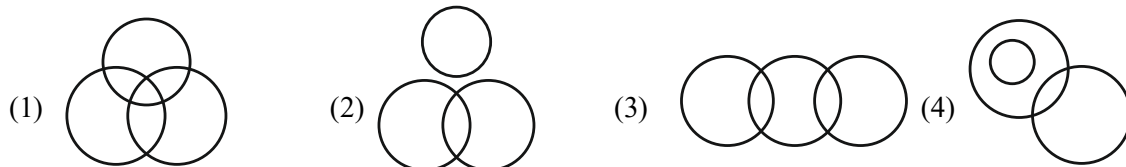
77. What should be the number in place of question mark ?

Series is : 2, 12, 30, 56, 90, ?

- (1) 112 (2) 132  
(3) 152 (4) 142

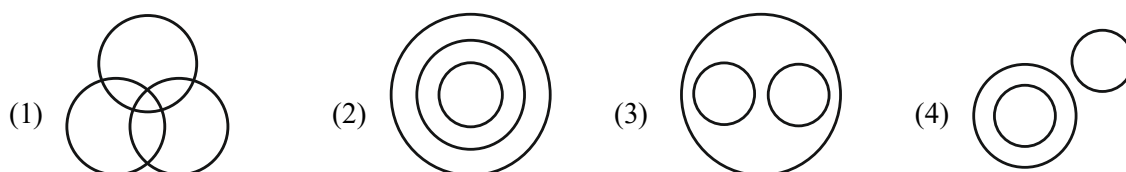
78. Some of the cricket players are tennis players, some tennis players are hockey players, no cricket player is a hockey player.

Which of the following diagrams correctly represents the above statements ?

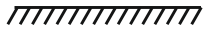
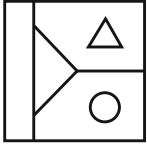


79. **Directions:** In each of these questions, three words are related in some way. The relationship among the words in the question can best be represented by one of the five diagrams (a), (b), (c), (d) and (e) given below. Mark your answer

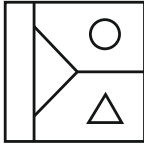
Mother, Homosapien, Woman



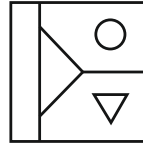
80.



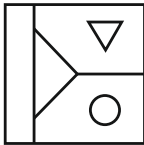
(1)



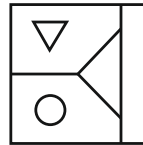
(2)



(3)



(4)



ANSWERKEY

PHY	Q. No	1	2	3	4	5	6	7	8	9	10	11	
	Ans.	3	3	2	4	4	3	2	3	3	2	2	
CHEM	Q. No	12	13	14	15	16	17	18	19	20	21	22	
	Ans.	2	4	1	2	2	4	1	3	1	4	1	
BIO	Q. No	23	24	25	26	27	28	29	30	31	32	33	
	Ans.	4	3	1	4	4	1	3	4	3	1	4	
MATHS	Q. No	34	35	36	37	38	39	40	41	42	43	44	
	Ans.	2	1	3	1	3	2	3	4	3	3	3	
	Q. No	45	46	47	48	49	50	51	52	53	54	55	
	Ans.	2	4	2	2	4	4	2	1	4	2	2	
	Q. No	56	57	58									
	Ans.	3	2	2									
MAT	Q. No	59	60	61	62	63	64	65	66	67	68	69	
	Ans.	2	2	2	2	4	3	4	3	3	4	4	
	Q. No	70	71	72	73	74	75	76	77	78	79	80	
	Ans.	3	4	3	4	4	1	2	2	3	2	2	